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INNOVATIVE BONDING SOLUTIONS ETC.

TECHNICAL BULLETIN

20-2362 FR
FLAME RETARDANT POLYURETHANE POTTING & ENCAPSULATING COMPOUND UL 94 V-0 Listed

DESCRIPTION:

The 20-2362FR potting and encapsulating compound has been formulated to meet the stringent non-burning requirements of UL 94 V-0. 20-2362FR is listed with Underwriter's Laboratory for passing UL 94 V-0. This system offers a unique combination of properties. 20-2362 is very low in viscosity, flame retardant, has a glass transition temperature of -72°C, and has low moisture permeability. This product forms a soft elastomer that will cushion and protect sensitive electronic components.

FEATURES:	BENEFITS:
Flame Retardant - **UL 94 V-0 listed**	May be used in applications requiring FR
Low Viscosity	Quick self-leveling around components
Low Durometer	Low stress on components & vibration resistance
Low Shrinkage & Exotherm	Will not damage components during cure
Excellent Moisture Resistance	Will not absorb H_2O and can be used in wet environments
Maintains Flexibility at Low Temperatures	Can be used in very cold environments
RoHS and REACH compliant	Finished products are export compliant

TYPICAL PROPERTIES:

Color	Black
Specific gravity, @ 25°C	
Polyol	1.21
Isocyanate	1.24
Mix ratio, by weight mixed (P:I)	100:22
Hardness, Shore A	90
Pot life, 100 gram mass, 25°C	20 minutes
Viscosity, 25°C, cps	
Resin	7,500
Catalyst	315
Mixed	2,500
Coefficient of thermal expansion, per °C	2.28×10^{-4}
Tensile strength, psi	400
Elongation, %	40

epoxies.com
21 Starline Way
Cranston, RI 02921 USA
t 401.946.5564
f 401.946.5526

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Glass transition temperature, °C	-72
Dielectric constant, 25°C, 1 KHz	4.5
Surface resistivity, 25°C, ohm	1×10^{16}
Volume resistivity, ohm-cm	6×10^{16}
Operating temperature range, °C	-40 to +125

INSTRUCTIONS FOR USE:

1. Settling of fillers may occur. Mix polyol before using.
2. By weight, thoroughly mix 22 parts 20-2362 I (Isocyanate) to 100 parts 20-2362 P (Polyol). Two components should be carefully weighed in metal, plastic, or glass containers. Avoid using paper cups and wooden stirrers.
3. Mixed material can be degassed at 1 to 5 mm Hg to ensure bubble free castings. Containers should be large enough to allow frothing.
4. Cure according to one of the following cure schedules:

25°C	24 Hours
65°C	2 Hours
80°C	60 Minutes

Note: When cured at room temperature, full hardness and final properties are achieved in 7-10 days.

STORAGE & HANDLING & SAFETY:

Store both components at 75-85F in original containers. If the containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. Carefully read Material Safety Data Sheets before using.

IMPORTANT:

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